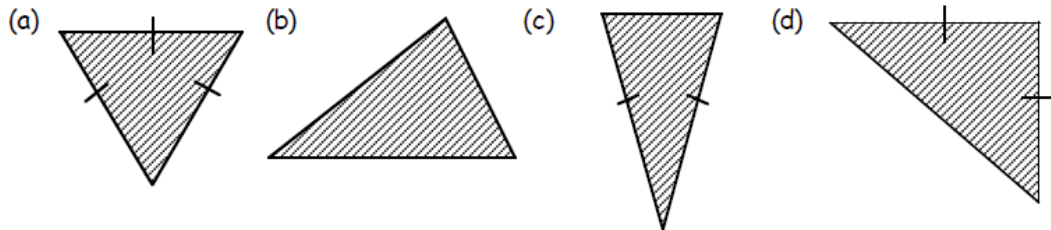


## Triangles and Pythagoras' Theorem

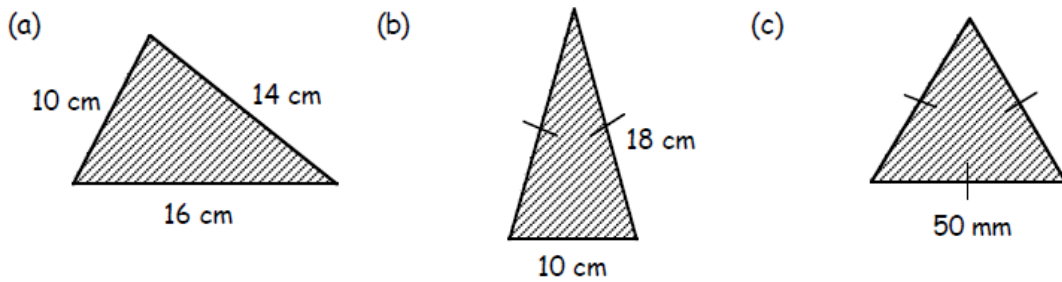
1. Write down the special name for the following types of triangles :-

- (a) a triangle where all 3 sides are different sizes.
- (b) a triangle with only 2 of its sides equal in length.
- (c) a triangle with all 3 of its sides equal in length.

2. State which type of triangle each of the following is :-

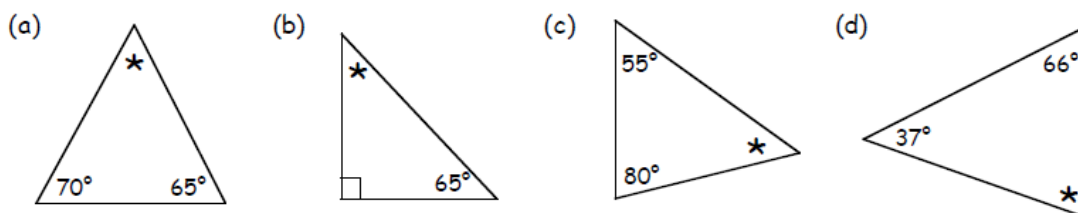


3. Calculate the PERIMETER of each of these triangles :-



4. Copy and complete :- The angles in a triangle will always add up to .....°.

5. Calculate the angle marked \* in each of these triangles :-

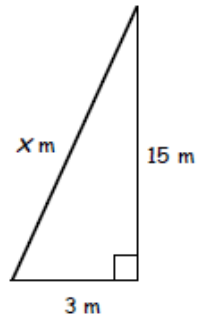


## Revision Exercise

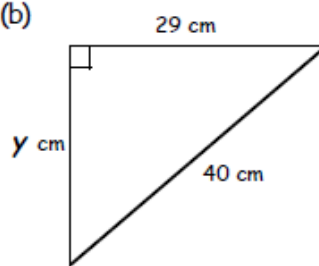
1. Find :- (a)  $8^2$  (b)  $100^2$  (c)  $\sqrt{100}$  (d)  $\sqrt{12}$ .

2. Calculate the length of each missing side :-

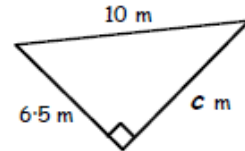
(a)



(b)



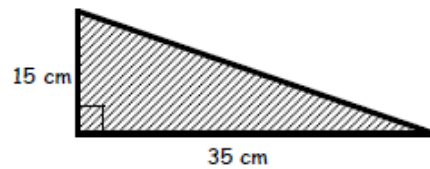
(c)



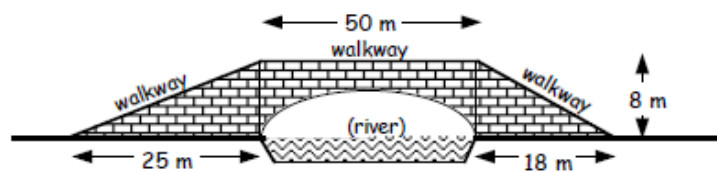
3. A triangular car window frame needs a rubber seal around its perimeter.

Find the perimeter of the window.

(Give your answer to the nearest millimetre).



4. A design for a bridge walkway over a river is as shown.



The architect has been given instructions that the **total** walkway length must not exceed 100 metres.

Has the architect designed the bridge properly ?  
(Explain your answer in full showing all working).

5. The **area** of the triangle shown is  $75 \text{ cm}^2$ .

Find the length of the sloping side.

